

## SEQUENCE LISTING

<110> Conklin, Darrell C.  
Haldeman, Betty A.

<120> MAMMALIAN CYTOKINE-LIKE POLYPEPTIDE-10

<130> 97-72

<150> 09/199,586

<151> 1998-11-25

<150> 60/066,597

<151> 1997-11-26

<160> 43

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<210> 1

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (45)...(572)

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Ser Leu Ala Phe Ser Leu Leu Ser Ala Ala Phe Tyr Leu Leu Trp Thr	
5 10 15 20	
cct tcc act gga ctg aag aca ctc aat ttg gga agc tgt gtg atc gcc	152
Pro Ser Thr Gly Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala	
25 30 35	
aca aac ctt cag gaa ata cga aat gga ttt tct gac ata cgg ggc agt	200

Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser	
40 45 50	
gtg caa gcc aaa gat gga aac att gac atc aga atc tta agg agg act	248
Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr	
55 60 65	
gag tct ttg caa gac aca aag cct gcg aat cga tgc tgc ctc ctg cgc	296
Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg	
70 75 80	
cat ttg cta aga ctc tat ctg gac agg gta ttt aaa aac tac cag acc	344
His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr	
85 90 95 100	
cct gac cat tat act ctc cgg aag atc agc agc ctc gcc aat tcc ttt	392
Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe	
105 110 115	
ctt acc atc aag aag gac ctc cgg ctc tgt cat gcc cac atg aca tgc	440
Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His Ala His Met Thr Cys	
120 125 130	
cat tgt ggg gag gaa gca atg aag aaa tac agc cag att ctg agt cac	488
His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His	
135 140 145	
ttt gaa aag ctg gaa cct cag gca gca gtt gtg aag gct ttg ggg gaa	536
Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu	
150 155 160	
cta gac att ctt ctg caa tgg atg gag gag aca gaa taggaggaaa	582
Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu	
165 170 175	
gtgatgctgc tgctaagaat attcgaggtc aagagctcca gtcttcaata cctgcagagg	642
aggcatgacc ccaaaccacc atctctttac tgtactagtc ttgtgctggc cacagtgtat	702
cttattttatg cattacttgc ttccttgcac gattgtcttt atgcatcccc aatcttaatt	762
gagaccatac ttgtataaga tttttgtaat atctttctgc tattggatat atttattagt	822
taatatatatt atttattttt tgctattaat gtatttaatt ttttacttgg gcatgaaact	882
ttaaaaaaaaaa ttcacaagat tatattttata acctgactag agca	926

<211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 2

Met	Lys	Ala	Ser	Ser	Leu	Ala	Phe	Ser	Leu	Leu	Ser	Ala	Ala	Phe	Tyr
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Leu	Leu	Trp	Thr	Pro	Ser	Thr	Gly	Leu	Lys	Thr	Leu	Asn	Leu	Gly	Ser
			20					25					30		
Cys	Val	Ile	Ala	Thr	Asn	Leu	Gln	Glu	Ile	Arg	Asn	Gly	Phe	Ser	Asp
		35					40					45			
Ile	Arg	Gly	Ser	Val	Gln	Ala	Lys	Asp	Gly	Asn	Ile	Asp	Ile	Arg	Ile
	50					55					60				
Leu	Arg	Arg	Thr	Glu	Ser	Leu	Gln	Asp	Thr	Lys	Pro	Ala	Asn	Arg	Cys
65					70					75				80	
Cys	Leu	Leu	Arg	His	Leu	Leu	Arg	Leu	Tyr	Leu	Asp	Arg	Val	Phe	Lys
				85					90					95	
Asn	Tyr	Gln	Thr	Pro	Asp	His	Tyr	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu
			100					105					110		
Ala	Asn	Ser	Phe	Leu	Thr	Ile	Lys	Lys	Asp	Leu	Arg	Leu	Cys	His	Ala
		115					120					125			
His	Met	Thr	Cys	His	Cys	Gly	Glu	Glu	Ala	Met	Lys	Lys	Tyr	Ser	Gln
	130					135					140				
Ile	Leu	Ser	His	Phe	Glu	Lys	Leu	Glu	Pro	Gln	Ala	Ala	Val	Val	Lys
145					150					155				160	
Ala	Leu	Gly	Glu	Leu	Asp	Ile	Leu	Leu	Gln	Trp	Met	Glu	Glu	Thr	Glu
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<210> 3  
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<220>  
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 <222> (45)...(497)

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gtattttaatt ttttac

793

&lt;210&gt; 4

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

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Met Lys Ala Ser Ser Leu Ala Phe Ser Leu Leu Ser Ala Ala Phe Tyr
 1          5          10          15
Leu Leu Trp Thr Pro Ser Thr Gly Leu Lys Thr Leu Asn Leu Gly Ser
 20          25          30
Cys Val Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp
 35          40          45
Ile Arg Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile
 50          55          60
Leu Arg Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys
 65          70          75          80
Cys Leu Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys
 85          90          95
Asn Tyr Gln Thr Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu
100          105          110
Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys Leu Glu
115          120          125
Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu
130          135          140
Gln Trp Met Glu Glu Thr Glu
145          150

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&lt;210&gt; 5

&lt;211&gt; 253

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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ctttgaattc ctagctcctg tgggtctccag atttcaggcc taagatgaaa gcctctagtc      60
ttgccttcag ccttctctct gctgcgtttt atctcctatg gactccttcc actggactga      120
agacactcaa tttgggaagc tgtgtgatcg ccacaaacct tcaggaaata cgaaatggat      180
tttctgagat acggggcagt gtgcaagcca aagatggaaa cattgacatc agaatcttaa      240
ggaggactga gtc                                     253

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&lt;210&gt; 6

&lt;211&gt; 24

<212> DNA

<213> Homo sapiens

<400> 6

attcctagct cctgtggtct ccag

24

<210> 7

<211> 25

<212> DNA

<213> Homo sapiens

<400> 7

ctctgctgcg ttttatctcc tatgg

25

<210> 8

<211> 22

<212> DNA

<213> Homo sapiens

<400> 8

tcccaaattg agtgtcttca gt

22

<210> 9

<211> 45

<212> DNA

<213> Homo sapiens

<400> 9

cacagcttcc caaattgagt gtcttcagtc cagtggaagg agtcc

45

<210> 10

<211> 747

<212> DNA

<213> Homo sapiens

<400> 10

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ttgctaagac tctatctgga cagggtattt aaaaactacc agaccctga ccattatact	180
ctccggaaga tcagcagcct cgccaattcc tttcttacca tcaagaagga cctccggctc	240
tgtcatgccc acatgacatg ccattgtggg gaggaagcaa tgaagaaata cagccagatt	300
ctgagtcact ttgaaaagct ggaacctcag gcagcagttg tgaaggcttt gggggaacta	360
gacattcttc tgcaatggat ggaggagaca gaataggagg aaagtgatgc tgctgctaag	420

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aatattcgag gtcaagagct ccagtcttca atacctgcag aggaggcatg accccaaacc 480
accatctctt tactgtacta gtcttgtgct ggtcacagtg tatcttattt atgcattact 540
tgcttccttg catgattgtc tttatgcac ccgaatctta attgagacca tacttgata 600
agatTTTTgt aatatctttc tgctattgga tataatttatt agttaatata tttatttatt 660
ttttgctatt aatgtattta attttttact tgggcatgaa actttaaaaa aaattcacia 720
gattatattt ataacctgac tagagca 747

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<210> 11
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<212> DNA
<213> Homo sapiens

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ttgctaagac tctatctgga cagggtattt aaaaactacc agaccctga ccattatact 180
ctccggaaga tcagcagcct cgccaattcc tttcttacca tcaagaagga cctccggtc 240
tgtctggaac ctcaggcagc agttgtgaag gctttggggg aactagacat tcttctgcaa 300
tggatggagg agacagaata ggaggaaagt gatgctgctg ctaagaatat tcgagggtcaa 360
gagctccagt cttcaatacc tgcagaggag gcatgacccc aaaccaccat ctctttactg 420
tactagtctt gtgctggtca cagtgtatct tatttatgca ttacttgctt ccttgcatga 480
ttgtctttat gcatcccaa tcttaattga gaccatactt gtataagatt tttgtaatat 540
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atttaatttt ttac 614

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<210> 12
<211> 152
<212> PRT
<213> Homo sapiens

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<400> 12
Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala Thr Asn Leu Gln
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Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser Val Gln Ala Lys
          20           25           30
Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr Glu Ser Leu Gln
          35           40           45
Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg His Leu Leu Arg
          50           55           60
Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr
65           70           75           80
Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys
          85           90           95

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Lys Asp Leu Arg Leu Cys His Ala His Met Thr Cys His Cys Gly Glu  
                   100                  105                  110  
 Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe Glu Lys Leu  
                   115                  120                  125  
 Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu  
                   130                  135                  140  
 Leu Gln Trp Met Glu Glu Thr Glu  
 145                  150

<210> 13  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 13

Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala Thr Asn Leu Gln  
   1                  5                  10                  15  
 Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser Val Gln Ala Lys  
                   20                  25                  30  
 Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr Glu Ser Leu Gln  
                   35                  40                  45  
 Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg His Leu Leu Arg  
   50                  55                  60  
 Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr  
   65                  70                  75                  80  
 Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys  
                   85                  90                  95  
 Lys Asp Leu Arg Leu Cys Leu Glu Pro Gln Ala Ala Val Val Lys Ala  
                   100                  105                  110  
 Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu  
                   115                  120                  125

<210> 14  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 14

Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile  
   1                  5                  10                  15

<210> 15  
 <211> 15



<213> Homo sapiens

Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr Thr  
1 5 10 15

<213> Homo sapiens

Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys  
1 5 10 15

<213>. Homo sapiens

Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met  
1 5 10 15

<213> Mus musculus

<222> (71) ... (598)

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taggtgtaag  atg aaa ggc ttt ggt ctt gcc ttt gga ctg ttc tcc gct      109
           Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala
             1             5             10

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gtg ggt ttt ctt ctc tgg act cct tta act ggg ctc aag acc ctc cat 157  
Val Gly Phe Leu Leu Trp Thr Pro Leu Thr Gly Leu Lys Thr Leu His  
15 20 25

ttg gga agc tgt gtg att act gca aac cta cag gca ata caa aag gaa Leu Gly Ser Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu 30 35 40 45	205
ttt tct gag att cgg gat agt gtg caa gct gaa gat aca aat att gac Phe Ser Glu Ile Arg Asp Ser Val Gln Ala Glu Asp Thr Asn Ile Asp 50 55 60	253
atc aga att tta agg acg act gag tct ttg aaa gac ata aag tct ttg Ile Arg Ile Leu Arg Thr Thr Glu Ser Leu Lys Asp Ile Lys Ser Leu 65 70 75	301
gat agg tgc tgc ttc ctt cgt cat cta gtg aga ttc tat ctg gac agg Asp Arg Cys Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg 80 85 90	349
gta ttc aaa gtc tac cag acc cct gac cac cat acc ctg aga aag atc Val Phe Lys Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile 95 100 105	397
agc agc ctc gcc aac tcc ttt ctt atc atc aag aag gac ctc tca gtc Ser Ser Leu Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val 110 115 120 125	445
tgt cat tct cac atg gca tgt cat tgt ggg gaa gaa gca atg gag aaa Cys His Ser His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys 130 135 140	493
tac aac caa att ctg agt cac ttc ata gag ttg gaa ctt cag gca gcg Tyr Asn Gln Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala 145 150 155	541
gtg gta aag gct ttg gga gaa cta ggc att ctt ctg aga tgg atg gag Val Val Lys Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu 160 165 170	589
gag atg cta tagatgaaag tggagaggct gctgagaaca ctcctgtcca Glu Met Leu 175	638
agaatctcag acctcagcac catgaagaca tggccccagg tgctggcatt tctactcaag	698

agttccagtc ctcagcacca cgaagatggc ctcaaaccac caccctttg tgatataact 758  
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<210> 19

<211> 176

<212> PRT

<213> Mus musculus

<400> 19

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Leu	Leu	Trp	Thr	Pro	Leu	Thr	Gly	Leu	Lys	Thr	Leu	His	Leu	Gly	Ser
			20					25					30		
Cys	Val	Ile	Thr	Ala	Asn	Leu	Gln	Ala	Ile	Gln	Lys	Glu	Phe	Ser	Glu
		35					40					45			
Ile	Arg	Asp	Ser	Val	Gln	Ala	Glu	Asp	Thr	Asn	Ile	Asp	Ile	Arg	Ile
	50					55				60					
Leu	Arg	Thr	Thr	Glu	Ser	Leu	Lys	Asp	Ile	Lys	Ser	Leu	Asp	Arg	Cys
65					70					75				80	
Cys	Phe	Leu	Arg	His	Leu	Val	Arg	Phe	Tyr	Leu	Asp	Arg	Val	Phe	Lys
			85					90					95		
Val	Tyr	Gln	Thr	Pro	Asp	His	His	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu
			100					105					110		
Ala	Asn	Ser	Phe	Leu	Ile	Ile	Lys	Lys	Asp	Leu	Ser	Val	Cys	His	Ser
		115					120					125			
His	Met	Ala	Cys	His	Cys	Gly	Glu	Glu	Ala	Met	Glu	Lys	Tyr	Asn	Gln
	130					135				140					
Ile	Leu	Ser	His	Phe	Ile	Glu	Leu	Glu	Leu	Gln	Ala	Ala	Val	Val	Lys
145					150					155				160	
Ala	Leu	Gly	Glu	Leu	Gly	Ile	Leu	Leu	Arg	Trp	Met	Glu	Glu	Met	Leu
			165					170						175	

<210> 20

<211> 152

<212> PRT

<213> Mus musculus

<400> 20

Leu	Lys	Thr	Leu	His	Leu	Gly	Ser	Cys	Val	Ile	Thr	Ala	Asn	Leu	Gln
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Ala	Ile	Gln	Lys	Glu	Phe	Ser	Glu	Ile	Arg	Asp	Ser	Val	Gln	Ala	Glu
			20					25					30		

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<210> 21
<211> 16
<212> PRT
<213> Mus musculus
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1          5          10          15

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<211> 16

<212> PRT

<213> *Mus musculus*

<400> 21

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<210> 22

<211> 15

<212> PRT

<213> Mus musculus

<400> 22

Leu Asp Arg Val Phe Lys Val Tyr Gln Thr Pro Asp His His Thr  
1 5 10 15

<210> 23

<211> 15

<212> PRT

<213> Mus musculus

<400> 23

Leu Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys  
1 5 10 15

<210> 24  
 <211> 15  
 <212> PRT  
 <213> Mus musculus

<400> 24  
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 1 5 10 15

<210> 25  
 <211> 144  
 <212> PRT  
 <213> Mus musculus

<400> 25  
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 Ile Arg Asp Ser Val Gln Ala Glu Asp Thr Asn Ile Asp Ile Arg Ile  
 20 25 30  
 Leu Arg Thr Thr Glu Ser Leu Lys Asp Ile Lys Ser Leu Asp Arg Cys  
 35 40 45  
 Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg Val Phe Lys  
 50 55 60  
 Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile Ser Ser Leu  
 65 70 75 80  
 Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys His Ser  
 85 90 95  
 His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys Tyr Asn Gln  
 100 105 110  
 Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val Val Lys  
 115 120 125  
 Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu Met Leu  
 130 135 140

<210> 26  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 26  
 Cys Val Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp  
 1 5 10 15

Ile Arg Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile  
 20 25 30  
 Leu Arg Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys  
 35 40 45  
 Cys Leu Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys  
 50 55 60  
 Asn Tyr Gln Thr Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu  
 65 70 75 80  
 Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His Ala  
 85 90 95  
 His Met Thr Cys His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln  
 100 105 110  
 Ile Leu Ser His Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys  
 115 120 125  
 Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu  
 130 135 140

<210> 27

<211> 38

<212> PRT

<213> Homo sapiens

<400> 27

Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe  
 1 5 10 15

Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu  
 20 25 30  
 Asp Ile Leu Leu Gln Trp  
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<210> 28

<211> 71

<212> PRT

<213> Homo sapiens

<400> 28

Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg  
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 Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg  
 20 25 30  
 Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu  
 35 40 45

Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr  
 50 55 60  
 Gln Thr Pro Asp His Tyr Thr  
 65 70

<210> 29  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 29  
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 Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg  
 20 25 30  
 Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu  
 35 40 45  
 Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr  
 50 55 60  
 Gln Thr Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn  
 65 70 75 80  
 Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys  
 85 90

<210> 30  
 <211> 82  
 <212> PRT  
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<400> 30  
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 Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp  
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 Leu Arg Leu Cys His Ala His Met Thr Cys His Cys Gly Glu Glu Ala  
 35 40 45  
 Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe Glu Lys Leu Glu Pro  
 50 55 60  
 Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln  
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 Trp Met

<210> 31

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 31  
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 Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp  
 20 25 30  
 Leu Arg Leu Cys  
 35

<210> 32  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 32  
 Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His  
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 Ala His Met Thr Cys His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser  
 20 25 30  
 Gln Ile Leu Ser His Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val  
 35 40 45  
 Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met  
 50 55 60

<210> 33  
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<220>  
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 <222> (71)...(532)

<400> 33  
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 Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala  
 1 5 10  
 gtg ggt ttt ctt ctc tgg act cct tta act ggg ctc aag acc ctc cat 157



Val Gly Phe Leu Leu Trp Thr Pro Leu Thr Gly Leu Lys Thr Leu His	
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Leu Gly Ser Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu	
30 35 40 45	
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Phe Ser Glu Ile Arg Asp Ser Val Ser Leu Asp Arg Cys Cys Phe Leu	
50 55 60	
cgt cat cta gtg aga ttc tat ctg gac agg gta ttc aaa gtc tac cag	301
Arg His Leu Val Arg Phe Tyr Leu Asp Arg Val Phe Lys Val Tyr Gln	
65 70 75	
acc cct gac cac cat acc ctg aga aag atc agc agc ctc gcc aac tcc	349
Thr Pro Asp His His Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser	
80 85 90	
ttt ctt atc atc aag aag gac ctc tca gtc tgt cat tct cac atg gca	397
Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys His Ser His Met Ala	
95 100 105	
tgt cat tgt ggg gaa gaa gca atg gag aaa tac aac caa att ctg agt	445
Cys His Cys Gly Glu Glu Ala Met Glu Lys Tyr Asn Gln Ile Leu Ser	
110 115 120 125	
cac ttc ata gag ttg gaa ctt cag gca gcg gtg gta aag gct ttg gga	493
His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val Val Lys Ala Leu Gly	
130 135 140	
gaa cta ggc att ctt ctg aga tgg atg gag gag atg cta tagatgaaag	542
Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu Met Leu	
145 150	
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tggtcccccagg tgctggcatt tctactcaag agttccagtc ctcagcacca cgaagatggc	662
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<211> 154

<212> PRT

<213> Mus musculus

<400> 34

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Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala Val Gly Phe
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          20           25           30
Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu Phe Ser Glu
          35           40           45
Ile Arg Asp Ser Val Ser Leu Asp Arg Cys Cys Phe Leu Arg His Leu
          50           55           60
Val Arg Phe Tyr Leu Asp Arg Val Phe Lys Val Tyr Gln Thr Pro Asp
65           70           75           80
His His Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Ile
          85           90           95
Ile Lys Lys Asp Leu Ser Val Cys His Ser His Met Ala Cys His Cys
          100          105          110
Gly Glu Glu Ala Met Glu Lys Tyr Asn Gln Ile Leu Ser His Phe Ile
          115          120          125
Glu Leu Glu Leu Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Gly
          130          135          140
Ile Leu Leu Arg Trp Met Glu Glu Met Leu
145          150

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<210> 35

<211> 130

<212> PRT

<213> Mus musculus

<400> 35

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Leu Lys Thr Leu His Leu Gly Ser Cys Val Ile Thr Ala Asn Leu Gln
 1           5           10           15

Ala Ile Gln Lys Glu Phe Ser Glu Ile Arg Asp Ser Val Ser Leu Asp
          20           25           30
Arg Cys Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg Val
          35           40           45
Phe Lys Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile Ser
          50           55           60
Ser Leu Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys
65           70           75           80
His Ser His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys Tyr

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	85		90		95
Asn Gln Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val					
	100		105		110
Val Lys Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu					
	115		120		125
Met Leu					
130					

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<400> 37  
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26

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25

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<212> DNA

<213> Mus musculus

<400> 42

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23

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<212> DNA

<213> Mus musculus

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25